

Long Term Plan Maths

2026-2027

Year	Autumn 1 (7 weeks = 28 lessons)	Autumn 2 (7 weeks = 28 lessons)	Spring 1 (6 weeks = 24 lessons)	Spring 2 (5 weeks = 20 lessons)	Summer 1 (7 weeks = 28 lessons)	Summer 2 (7 weeks = 28 lessons)
Green (academic Year 27- 28)	Place value, ordering and rounding 1. Read and write integers to 10,000 2. Understand the place value of a digit to an integer of 10000 3. Compare integers to 10, 000 4. Order integers to 10,000 5. Work out intervals on a number line 6. Position integers on a number line 7. Place value for decimals 8. Compare and order decimals. 9. Round numbers to the nearest 10 & 100 10. Round up to the nearest 1,000 Four operations 11. Add integers 12. Subtract integers 13. Solve problems with addition and subtraction 14. Double and halve 15. Multiply integers 16. Divide integers 17. Order of operations Averages and range	Sequences 1. Sequences of diagrams 2. Continue number sequences 3. Create and continue number sequences Algebraic notation and substitution 4. 1-step function machines (number) 5. 1-step function machines (algebra) 6. Find a function (1 step) 7. Substitution (1 step) 8. 2-step function machines (number) 9. 2-step function machines (algebra) 10. Substitution (2-step) 11. End of block assessment Shape revision 12. 2D shape vocabulary and properties 13. Triangles 14. Quadrilaterals 15. Polygons 16. Lines of symmetry 17. 3D shape vocabulary and properties 18. Nets 19. Prisms and pyramids 20. Practical application of shape	Graphing data 1. Represent data in pictograms 2. Interpret pictograms 3. Represent data in bar charts 4. Interpret bar charts 5. Represent data in dual bar charts 6. Coordinates in the first quadrant 7. Read and interpret tables and scatter graphs 8. Scatter graphs 9. Correlation Fractions, decimals and percentages 10. Fraction knowledge check & gap fill 11. Explore equal parts 12. Fractions on a number line 13. Understand percentages 14. Explore tenths & hundredths 15. Explore half & quarters 16. Explore fifths 17. Equivalent fractions, decimals and percentages 18. Continue with above	Directed number 1. Negative numbers and number lines 2. Compare and order directed numbers 3. Calculations that cross zero 4. Negative numbers and zero pairs 5. Add directed numbers 6. Subtract directed numbers 7. Add and subtract directed numbers 8. End of block assessment Fraction and percentages of amounts 9. Fraction recall 10. Unit fraction of an amount 11. Non-unit fraction of an amount 12. Use a unit fraction to find the whole 13. Percentage of an amount (10%, 25% and 50%) 14. Percentage of an amount (calculator) Lessons 15-20 catch up, consolidation & assessments	Perimeter and area 1. Perimeter on a grid 2. Perimeter of a polygon 3. Use perimeter to work outside lengths 4. Area on a grid 5. Area of a rectangle 6. Area of a parallelogram 7. Area of a triangle 8. Convert metric units of length 9. End of block assessment Speed distance and time 10. Convert between hours and minutes 11. Understand speed 12. Speed, distance time (non-calculator) 13. Speed, distance and time (calculator) 14. Interpret distance-time graphs 15. End of block assessment Properties of number 16. Odd and even 17. Multiples 18. Factors 19. HCF/LCF 20. Prime numbers 21. Square numbers	Add and subtract fractions 1. Add and subtract fractions with the same denominator 2. Make a whole 3. Subtract fractions from a whole 4. Convert improper fractions to mixed numbers 5. Convert mixed numbers to improper fractions 6. Equivalent fractions Money 7. Write money using decimals 8. Convert between pounds and pence 9. Compare amounts of money 10. Estimate with money 11. Calculate with money 12. Solve problems with money Angles and polygons 13. Draw and measure line segments & estimate distance 14. Classify angles 15. Estimate the size of an angle 16. Protractors 17. Measure angles

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	18. Mode 19. Mean 20. Median 21. Range Lessons 22-28- catch up, consolidation & assessments	Lessons 21-28- catch up, consolidation & assessments	Lessons 19-24- catch up, consolidation & assessments		Lessons 22-28- catch up, consolidation & assessments	18. Draw angles 19. Angles around a point & on a straight line 20. Angles in a triangle 21. Angles in a quadrilateral Lessons 22-28- catch up, consolidation & assessments
Blue (academic Year 26-27)	Core number skills revision 1. Place value revision 2. Addition and subtraction revision 3. Multiplication and division revision Ratio 4. Understand ratio 5. Link ratio & fractions 6. Simplify ratios 7. Ratio problems (whole given) 8. Ration problems (part given) 9. End of block assessment Proportion and scale 10. The unitary method 11. The multiplier method 12. Recipes 13. Conversion graphs 14. Convert between currencies 15. Scale diagrams Directed number 16. Add and subtract directed numbers 17. Multiply directed numbers	Coordinates and graphs 1. Read and plot coordinates 2. Problem solving with coordinates 3. Translation 4. Translation with coordinates 5. Plot coordinates in more than one quadrant Symmetry and reflection 6. Line of symmetry 7. Reflect a shape in a horizontal or vertical line (not touching the shape) 8. Reflect a shape in a diagonal line (touching the shape) 9. Reflect shape in a diagonal line. Multiply fractions 10. Fraction baseline and gap filling 11. Representations of fractions	Area and volume 1. Name 2-D shapes 2. Area of squares, rectangles and parallelograms 3. Find unknown lengths in rectilinear shapes 4. Area of a rectilinear shape 5. Area of a triangle 6. Area of a compound shape 7. Solve problems with area 8. Volume of cubes and cuboids (counting cubes) 9. Volume of cubes and cuboids 10. End of block assessment Position and direction 11. Direction vocabulary 12. Compass points 13. Full, half, quarter turns 14. Angles to describe position 15. Position and direction problem solving	Fractions and percentages 1. Convert between fractions and decimals (non-calculator) 2. Convert between fractions and decimals (calculator) 3. Fraction of an amount 4. Increase or decrease an amount by a fraction 5. Convert percentages to fractions and decimals 6. Percentage of an amount (non-calculator) 7. Percentage increase and decrease Decimal arithmetic and rounding 8. Multiply decimals by integers 9. Divide decimals by integers 10. Round to the nearest integer 11. Round to decimal places Algebra 12. Form expressions	Interpret and represent data 1. Interpret and collect data 2. Median and mode 3. Range 4. Mean 5. Ungrouped frequency tables 6. Mean from an ungrouped frequency table 7. End of block assessment Statistics/Digital skills 8. Cells and input data 9. Tables on excel 10. Creating bar charts 11. Understanding line graphs 12. Creating line graphs 13. Calculating sum and difference 14. Calculating mean Angles 15. Understand and use degrees 16. Classify angles 17. Estimate angles	Angles in polygons 1. Types of triangles 2. Angles in a triangle 3. Types of quadrilaterals 4. Angles in a quadrilateral 5. Work out unknown sides and lengths and angles Tables and probability 6. Probability vocabulary 7. The probability scale 8. List outcomes 9. Probability of a single event 10. Probability experiments Circles 11. Circle vocabulary 12. Circumference of a circle (calculator) 13. Area of a circle (cal) Graphs and charts 14. Draw bar charts 15. Interpret bar charts 16. Draw pie charts 17. Plotting a line graph 18. Interpreting a line graph

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	18. Divide directed numbers 19. Multiply and divide directed numbers 20. Four operations with directed numbers 21. End of block assessment Lessons 22-28- catch up, consolidation & assessments	12. Convert improper fractions to mixed numbers 13. Simplify a fraction 14. Multiply a fraction by an integer 15. Multiply a fraction Time 16. Years, months, weeks and days 17. Hours, minutes and seconds 18. Convert between analogue and digital 19. Convert to the 24-hour clock Lessons 20-28- catch up, consolidation & assessments	Decimals 22. Tenths & hundredths as fractions 23. Tenths & hundredths as decimals 24. Tenths on a place value chart 25. Tenths & hundredths on a number line	13. Substitution 14. Formulae 15. Form equations 16. Solve 1 step equations Lessons 17-20 catch up, consolidation and assessment	18. Measure angles up to 180 19. Draw lines and angles 20. Vertically opposite angles 21. Apply facts Lessons 22-28- catch up, consolidation & assessments	Lessons 19-28 allow for catch up, consolidation, gap filling, assessment and projects.
Y10	Four operations 1. Multiplying and dividing by 10, 100, 1000 (place value) 2. Using known facts and place value to derive new multiplication facts. 3. Written multiplication methods 4. Written division methods Algebraic manipulation 5. Substitution 6. Collect like terms 7. Simplify expressions	Percentages 1. Percentage of an amount 2. Percentage increase and decrease 3. Express one number as a fraction or a percentage of another 4. Interest Ratio and scale 5. Equivalent ratios 6. Share in ratios (total given) 7. Share in ratios (part given) 8. Link ratios and fractions 9. Combine a set of ratios 10. Ratios and scales	Non-calculator methods 1. Place value, compare and order numbers 2. Add and subtract integers and decimals 3. Multiply and divide integers and decimals 4. Four operations with directed number 5. Order of operations 6. Related calculations 7. Solve multi-step problems Line graphs 8. Plot in the four quadrants 9. Reading and identifying scales	Rounding and estimation 1. Round to decimals and significant figures 2. Estimate answers to calculations 3. Use of a calculator 4. Error intervals (including truncation) Perimeter, area and volume 5. Perimeter of a 2D shape 6. Area of a 2D shape 7. Area of a compound shape 8. Recognise and label parts of a circle	Angles 1. Categorising angles 2. Measuring angles 3. Drawing angles 4. Direction and position using angles 5. Angles on a straight line 6. Angles around a point 7. Angles in a triangle 8. Vertically opposite angles 9. Alternate and corresponding angles Interpret and represent data 10. Median, mode & range 11. Mean	Graphs and diagrams 1. Revise pictograms and bar charts 2. Draw Pie charts 3. Interpret Pie charts 4. Time-series graphs 5. Stem-and-leaf diagrams Vectors 6. Understand and represent vectors 7. Vector notation 8. Translate by a vector Factors and powers 9. Factors 10. Multiples 11. Prime numbers 12. Square and cube numbers

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	8. Addition and subtraction laws for indices 9. Powers of powers 10. Expand a single bracket 11. Factorise into a single bracket 12. Expand double brackets Equations 13. Solve equations 14. Solve fractional equations 15. Solve equations with unknowns on both sides Shape, space and measure (this unit is based on gap filling core knowledge) 21. Triangles 22. Quadrilaterals 23. Polygons 24. Lines of symmetry 25. Nets 26. Prisms and pyramids Lessons 27 & 28 catch up, consolidation and gap filling	Work with fractions 11. Fraction baseline and gap filling 12. Fraction of an amount 13. Increase or decrease an amount by a fraction 14. Use fraction to find a whole 15. Equivalent fractions and mixed numbers 16. Add and subtract fractions 17. Multiply fractions 18. Divide fractions 19. Solve problems with fractions Lessons 20-28 catch up, consolidation and gap filling	10. Plotting line graphs 11. Interpreting line graphs 12. $Y=mx + c$ Probability 13. Find the probability of a single event 14. Use the property that probabilities sum to 1 15. List outcomes 16. Relative frequency 17. Tree diagrams Conversions 18. mm, cm, M 19. ml & L 20. Minutes and hours Lessons 20-24 catch up, consolidation and gap filling	9. Circumference of a circle 10. Area of a circle 11. Volume of a prism 12. Nets 13. Surface area of a prism Lessons 14-20 catch up, consolidation and assessment	12. Averages from an ungrouped frequency table 13. Mean from a grouped frequency table 14. Types of data 15. Sampling 16. Scatter graphs Data and excel 17. Process numeric data using simple formulae (sum, subtraction, multiply, divide) DFS FSL1 2.4 18. Process numeric data using simple formulae (min, max, avg) DFS FSL1 2.4 19. Process (including sort, filter) numeric data by values in a column DFS FSL1 2.5 20. Format numeric data DFS FSL1 2.6 21. Chart a single series of numeric data using an appropriate type of chart and apply suitable titles and labels DFS FSL1 276 Lessons 22-28 catch up, consolidation and gap filling	13. Powers and roots 14. Negative indices Lessons 15-28 allow for catch up, consolidation, gap filling, assessment and working towards FSL1 and GCSE.
Y11	Ratio and proportion 1. Solve problems with ratio 2. Direct proportion 3. Best buy problems 4. Conversion graphs	Similarity and congruence 1. Identify similar shapes 2. Find unknown sides and angles in similar shapes	Functions and graphs 1. Function machines 2. Write an expression or formula from a function machine Equations and formulae	Angles, bearings and trigonometry 1. Categorising angles 2. Measuring angles 3. Drawing angles	Revision for GCSE exams To be updated based on mocks and needs	Exams and Y11 leave

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5. Exchange rates 6. Inverse proportion 7. Direct and inverse proportion graphs Area and volume 8. 3D shape revision/recall 9. Isometric drawings 10. Plans and elevations 11. Volume of a cuboid 12. Area of a circle 13. Volume of a cylinder 14. Volume of a sphere 15. Volume of cones and pyramids 16. Surface area of a sphere 17. Surface area of a cylinder 18. Surface area of pyramids 19. Surface area of cones 20. Converting metric units - Lessons 21-28 catch up, consolidation and gap filling	3. Identify similar triangles 4. Similarity and congruence 5. Congruent triangles Sequences and proof 6. Describe and continue arithmetic and geometric sequences 7. Explore other sequences 8. Generate a sequence given in an algebraic rule 9. Nth term of a linear sequence 10. Arguments and counterexamples Work with circles 11. Circumference of a circle 12. Area and perimeter 13. Area and perimeter of compound shapes with circles 14. Solve problems with circles Data and excel 15. Process numeric data using simple formulae (sum, subtraction, multiply, divide) DFS FSL1 2.4 16. Process numeric data using simple formulae (min, max, avg) DFS FSL1 2.4	3. Solve equations 4. Form and solve equations 5. Solve inequalities 6. Form and solve inequalities Rates 7. Convert between hours and minutes 8. Speed, distance-time graphs 9. Draw distance-time graphs Transformations 10. Enlargement (positive integer scale factor) 11. Line of symmetry and rotational symmetry 12. Reflection & rotation 13. Translation Time to complete FSL1 exams/Entry exams.	4. Direction and position using angles 5. Compass points and related angles 6. Compass directions 7. Angles on a line and around a point 8. Opposite angles 9. Alternative and corresponding angles 10. Problem solving with angles GCSE revision starts- based on needs of cohort		
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		17. Process (including sort, filter) numeric data by values in a column DFS FSL1 2.5 18. Format numeric data DFS FSL1 2.6 19. Chart a single series of numeric data using an appropriate type of chart and apply suitable titles and labels DFS FSL1 2.7 Lessons 20-28 catch up, consolidation and gap filling				
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Half Termly Career Focus

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Green	Statistician Construction Estimator	Meteorologist Software developer	Data analyst Market researcher	Banker Sports analyst	Train driver Pilot	Carpenter Animator/Game designer
Blue	Chef/caterer Architect	Computer programmer	Painter/Decorator Landscape gardener Plumber	Nutritionist Shop manager	Graphic designer Data Scientist Astronomer	Weather forecaster Epidemiologist
Y10	Engineer Chemist	Retail manager Bank/loan officer	Model maker Chef/baker	Data analyst Teacher Environmental scientist	Builder/contractor Interior designer	Aerospace engineer Physicist Marine navigator
Y11	Pharmacist Cartographer	Warehouse planner Robotics engineer Aerospace engineer	Computer scientist Economist	Civil engineer Surveyor	Animator/VFX artist Fashion pattern cutter	Skills for further education & careers e.g. revision, exams